

Abstract

Method for controlling the temperature of gases entering an automotive vehicle engine, heat exchanger and device for managing the temperature of these gases

According to the method, the gases are circulated in a liquid/gas heat exchanger (2, 12) prior to their entering the internal combustion engine (58) and a high temperature liquid and/or a low temperature liquid is circulated in the liquid/gas heat exchanger (2, 12) in order to heat and/or cool the gases (84) as required. The liquid/gas heat exchanger may comprise a single stage or two stages, that is a high temperature stage and a low temperature stage. It can also be used to cool the recirculating exhaust gases prior to their entering the engine.

(Figure 8)